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## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 2010 question paper for the guidance of teachers

## 0445 DESIGN AND TECHNOLOGY

0445/23

Paper 23 (Graphic Products), maximum raw mark 50

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2	Mark Scheme: Teachers' version	Syllabus
	IGCSE – May/June 2010	0445

A1 Rectangular screen 50 × 4 (2)

Ø50 circle (1)

Triangle  $45^{\circ} \times 90^{\circ}$  size (1) pos(1) (2 × 1)

Complete outline 70 × 120 (2)

Radius to min two corners (2)

[9]

[Total: 9]

**A2** Accuracy and proportion of:

**A** (1)

**Y**(1)

**E** (1)

**R** (1)

Spacing (1)

Height (1)

[6]

[Total: 6]

A3 (a) Development (net)

4 sides (1)

Regular square 64 side (1)

4 semi-circles min 2 drawn accurately (2 × 2)

[6]

(b) Correct side folded box 3 (1)

Overlap correct box 3 (1)

Overlap correct box 4 (1)

Tuck in shown correctly (1)

[4]

[Total: 10]

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	Page 3		IGCSE – May/June 2010	Syllabus 0445	
В4	(a)		by construction (evident) (2) s 93/95 spacing (1)	Syllabus 0445 r OHA CAMPARA	
	(b)	Ø26 for Body co Ø12 on Shoulde Arm (tw Arm and MP3 pr	rectangle (2) head & body (2) brrect height (41 +/-1) (1) hand (1) correct position (1) (2 × 1) er (1) to parts 1 + 1) (2) gle 60° (1) -0-3 (3) tones (1)	[15]	
	(c)		table chart/graph type 0–2 (2) ta represented accurately 0–2 (2)	[4]	
			table chart/graph type 0–2 (2) ta represented correctly (1)	[3]	
				[Total: 25]	
B5	(a)	Ler Hei Top Ma Mir Cor Cur Fus Rea Tai	ant View  Ingth of stand 150 (1)  Ight of stand 20 (1)  Ight of stand to Centre line 20mm (1)  Ight of stand 10  Ight of stand	[13]	
		Wir Wir Wir	n of the of stand 60 (1) of 30 wide at fuselage (1) of 55 from nose (1) of 55 fuselage to centre of radius ×2 (2) of tip R10 ×2 (2)	[7]	
	(b)		matching projection (1) drawing (1)	[2]	
	(c)	Joint at Slot (1)	A		
			ered tab (0-2 pr) (2)	[3]	
				[Total : 25]	